

Claims

1-12. (Canceled)

13. (Currently Amended) Swim goggles comprising a pair of unconnected eyepieces, each eyepiece adapted to provide a water-tight seal around an eye of a user during use of the goggles, wherein each eyepiece has a minimum depth of less than 8 mm measured at locations above and below the eyes when the eyepieces are in an as worn orientation, and wherein each eyepiece has a transparent lens portion and a transparent annular peripheral wall surrounding the lens portion and extending rearwardly therefrom.

14. (Original) The goggles of claim 13, wherein each eyepiece has a minimum depth of about 5.75 mm or less.

15. (Previously Presented) The goggles of claim 13, wherein each eyepiece has a layer of adhesive tape for adhesively securing the eyepiece to the skin.

16. (Currently Amended) The goggles of claim 15, wherein:
each eyepiece comprises ~~a transparent lens and~~ a frame portion surrounding the lens portion and the peripheral wall of the eyepiece, the frame portion of each eyepiece and having a posterior surface; and

each layer of adhesive tape comprises a deformable layer that is secured to the posterior surface of a respective frame and has an adhesive surface for adhering to the skin.

17. (Currently Amended) The goggles of claim 13, wherein each eyepiece comprises ~~a transparent lens portion and a~~ frame portion, wherein the eyepieces can be retained in place by contracting the orbicularis oculi muscles against the frame portions.

18. (Currently Amended) Swim goggles comprising a pair of unconnected eyepieces, each eyepiece adapted to provide a water-tight seal around an eye of a user during use of the goggles, wherein each eyepiece has a minimum depth of less than 8 mm measured at locations above and below the eyes when the eyepieces are in an as worn orientation;

~~The goggles of claim 13,~~ wherein each eyepiece comprises a flat anterior lens portion that is positioned in front of an eye in an as worn orientation and a flat side lens portion that extends rearwardly and temporally from ~~a respective the~~ anterior lens portion at an obtuse angle.

19. (Previously Presented) The goggles of claim 18, wherein:
each eyepiece comprises an annular peripheral wall that surrounds a respective anterior lens portion and side lens portion and extends rearwardly therefrom; and
wherein the side lens portion of each eyepiece intersects a respective anterior lens portion at a line extending between opposing points on the periphery of the side lens portion defining a maximum width of the side lens portion in the superior-inferior direction.

20-32. (Canceled)

33. (Currently Amended) An eyepiece for swim goggles comprising a body adapted to be worn over ~~the~~ only one eye of a user and form a water-tight seal around the eye that isolates the eye from the surrounding environment during use, the body comprising a transparent lens portion that includes a first, flat anterior lens that is positioned in front of the eye in an as worn orientation and at least a second, flat lens comprising flat and parallel opposed surfaces, the second lens being connected to the anterior lens at an obtuse angle and extending rearwardly therefrom, wherein the second lens reduces prismatic distortion of the lens portion and is connected to the anterior lens at an angle of approximately 124° to 164°.

34. (Original) The eyepiece of claim 33, wherein the second lens is a side lens that extends rearwardly and temporally from the anterior lens, wherein the side lens reduces hydrodynamic drag of the eyepiece and prismatic distortion of the lens portion.

35. (Original) The eyepiece of claim 34, wherein the side lens is connected to the anterior lens at an angle at which a line of sight extends perpendicularly with respect to the side lens whenever the eye is rotated temporally to a position at which the visual axis intersects a midpoint of the side lens.

36. (Currently Amended) An eyepiece for swim goggles comprising a body adapted to be worn over the eye of a user and form a water-tight seal around the eye that isolates the eye from the surrounding environment during use, the body comprising a transparent lens portion that includes a first, flat anterior lens that is positioned in front of the eye in an as worn orientation and at least a second, flat lens comprising flat and parallel opposed surfaces, the second lens being connected to the anterior lens at an obtuse angle and extending rearwardly therefrom, wherein the second lens reduces prismatic distortion of the lens portion and is connected to the anterior lens at an angle of approximately 124° to 164°;

wherein the second lens is a side lens that extends rearwardly and temporally from the anterior lens, wherein the side lens reduces hydrodynamic drag of the eyepiece and prismatic distortion of the lens portion;

wherein the side lens is connected to the anterior lens at an angle at which a line of sight extends perpendicularly with respect to the side lens whenever the eye is rotated temporally to a position at which the visual axis intersects a midpoint of the side lens;

The eyepiece of claim 35, wherein the body comprises a frame portion surrounding the first and second lenses and the eyepiece further comprises a piece of double-sided tape having a first adhesive surface adhering to a posterior surface of the frame and a second adhesive surface for adhering to skin substantially surrounding the eye.

37. (Currently Amended) An eyepiece for swim goggles comprising:
a body adapted to be worn over the only one eye of a user and form a water-tight seal around the eye that isolates the eye from the surrounding environment during use;
the body comprising a transparent lens portion that includes a first, flat anterior lens that is positioned in front of the eye in an as worn orientation and at least a second, flat lens connected to the anterior lens at an obtuse angle and extending rearwardly therefrom, wherein the second lens reduces prismatic distortion of the lens portion;

wherein the second lens is a side lens that extends rearwardly and temporally from the anterior lens, wherein the side lens reduces hydrodynamic drag of the eyepiece and prismatic distortion of the lens portion;

wherein the side lens is connected to the anterior lens at an angle at which a line of sight extends perpendicularly with respect to the side lens whenever the eye is rotated temporally to a position at which the visual axis intersects a midpoint of the side lens;

wherein the side lens is connected to the anterior lens at an angle of about 144° .

38. (Original) The eyepiece of claim 33, wherein the body includes a frame portion that is coupled to the lens portion and is shaped to generally conform to the shape of the orbital rim.

39. (Currently Amended) An eyepiece for swim goggles comprising a body adapted to be worn over the eye of a user and form a water-tight seal around the eye that isolates the eye from the surrounding environment during use, the body comprising a transparent lens portion that includes a first, flat anterior lens that is positioned in front of the eye in an as worn orientation and at least a second, flat lens comprising flat and parallel opposed surfaces, the second lens being connected to the anterior lens at an obtuse angle and extending rearwardly therefrom, wherein the second lens reduces prismatic distortion of the lens portion and is connected to the anterior lens at an angle of approximately 124° to 164° ;

wherein the body includes a frame portion that is coupled to the lens portion and is shaped to generally conform to the shape of the orbital rim;

~~The eyepiece of claim 38,~~ wherein the frame portion has an adhesive layer that adhesively secures the eyepiece to the skin of the user in close proximity of the eye.

40-43. (Canceled)

44. (Currently Amended) Swim goggles comprising a pair of eyepieces, each eyepiece being shaped to provide a water-tight seal around ~~an~~ only one eye of a user during use of the goggles, each eyepiece having a flat, transparent anterior lens that is positioned in front of a respective eye in an as worn orientation and a flat, transparent side lens connected to and inclined away from a respective anterior lens in a temporal direction so as to reduce hydrodynamic drag and prismatic distortion of the respective eyepiece,

wherein the side lens of each eyepiece intersects a respective anterior lens at a line extending between opposing points on the periphery of the side lens defining a maximum width of the side lens in the superior-inferior direction,

wherein the side lens is oriented with respect to the anterior lens such that a line of sight along the visual axis intersects the side lens at 90 degrees whenever the eye is rotated to a temporal position at which the visual axis intersects the side lens,

wherein said line of sight extends through a midpoint of the side lens,

wherein the side lens is connected to the anterior lens at an angle of approximately 124° to 164°.

45. (Original) The swim goggles of claim 44, wherein the side lens is connected to the anterior lens at an angle of about 144°.

46. (Previously Presented) The swim goggles of claim 44, wherein each eyepiece further comprises:

an annular side wall surrounding a respective anterior lens and side lens and extending rearwardly therefrom; and

a posterior frame portion connected to a respective side wall opposite the anterior lens and side lens, the frame portion being shaped to form a water-tight seal around an eye.

47. (Previously Presented) The swim goggles of claim 44, further comprising:

a nose piece connecting adjacent nasal end portions of the eyepieces and dimensioned to extend over the user's nose; and

a head strap connected to respective temporal end portions of the eyepieces and dimensioned to extend around the rear of the user's head.

48-53. (Canceled)

54. (Currently Amended) The goggles of claim 13, wherein each eyepiece includes a ~~body and~~ an adhesive for adhering the ~~body~~ eyepiece to the user's skin adjacent a respective eye.

55. (Currently Amended) The goggles of claim 13, wherein each eyepiece comprises a peripheral flange surrounding the lens portion and the peripheral wall, the flange being that is shaped to generally conform to the shape of an orbital rim ~~and a lens portion positioned in front of an eye when the eyepiece is being worn.~~

56. (Previously Presented) The goggles of claim 55, wherein each peripheral flange is sized and shaped to fit at least partially within a respective orbital rim.

57. (Previously Presented) The goggles of claim 56, wherein each peripheral flange has an upper nasal portion and a lower nasal portion that fit within a respective orbital rim.

58. (Previously Presented) The goggles of claim 57, wherein each peripheral flange has a lower temporal portion that fits at least partially within a respective orbital rim.

59. (New) An eyepiece for swim goggles comprising:
a protective body adapted to be worn over an eye of a user, the body comprising a transparent lens portion, a transparent peripheral wall surrounding the lens portion and extending rearwardly therefrom, and a frame portion surrounding the peripheral wall and shaped to generally conform to the shape of an orbital rim of the eye; and
an adhesive layer that adhesively secures the frame portion to the skin of the user in close proximity to the eye so as to form a substantially water-tight seal around the eye that substantially isolates the eye from the surrounding environment during use.

60. (New) The eyepiece of claim 59, wherein the lens portion comprises a flat, anterior lens that is positioned in front of the eye in an as worn orientation and a flat side lens connected to and inclined away from the anterior lens in a temporal direction.

61. (New) The eyepiece of claim 60, wherein the side lens intersects the anterior lens at a line extending in the superior-inferior direction from a point on the periphery of the side lens to an opposing point on the periphery of the side lens, the line defining a maximum width of the side lens in the superior-inferior direction.

62. (New) The eyepiece of claim 59, wherein the adhesive layer comprises double-sided tape having a first adhesive surface adhesively secured to a posterior surface of the frame portion and a second adhesive surface that adhesively secures the frame portion to the skin.

63. (New) The eyepiece of claim 59, wherein the frame portion has a curved, concave posterior surface.

64. (New) An eyepiece for swim goggles comprising:
a protective body adapted to be worn over only one eye of a user and form a water-tight seal around the eye that isolates the eye from the surrounding environment during use;
the body comprising a transparent lens portion including a flat, anterior lens that is positioned in front of the eye in an as worn orientation and a flat side lens connected to and inclined away from the anterior lens in a temporal direction, the body also comprising a transparent, annular peripheral wall surrounding the anterior lens and the side lens and extending rearwardly therefrom, and a frame portion surrounding the peripheral wall and shaped to generally conform to the shape of an orbital rim of the eye; and
wherein the side lens intersects the anterior lens at a line extending in the superior-inferior direction from a point on the periphery of the side lens to an opposing point on the periphery of the side lens, the line defining a maximum width of the side lens in the superior-inferior direction.

65. (New) The eyepiece of claim 64, wherein the side lens is connected to the anterior lens at an angle of approximately 124° to 164° .

66. (New) The eyepiece of claim 65, wherein the side lens is connected to the anterior lens at an angle of about 144° .

67. (New) The eyepiece of claim 65, further comprising an adhesive layer that adhesively secures the frame portion to the skin of the user in close proximity to the eye.